

Academic Year	2023/2024
العام الدراسي	
Term	1
الفصل	
Subject	Biology/Bridge
المادة	الأحياء/جسر
Grade	12
الصف	
Stream	General
المسار	
Number of MCQ	20
عدد الأسئلة الموضوعية	
Marks of MCQ	100
درجة الأسئلة الموضوعية	
Number of FRQ	0
عدد الأسئلة المقالية	
Marks per FRQ	
الدرجات للأسئلة المقالية	
Type of All Questions	الأسئلة الموضوعية / MCQ/
نوع كافة الأسئلة	
Maximum Overall Grade	100
الدرجة القصوى الممكنة	
Exam Duration -	120 minutes
مدة الامتحان -	
Mode of Implementation -	SwiftAssess
طريقة التطبيق -	
Calculator	Not Allowed
آلة الحاسبة	

Question*	Learning Outcome/Performance Criteria**	Reference(s) in the Student Book (Arabic Version)	
		المرجع في كتاب الطالب (النسخة العربية)	
		Example/Exercise	Page
السؤال *	نتائج التعلم / معايير الأداء **	مثال / تمرين	الصفحة
1	BIO.3.1.02.022 Identify examples of chemical reactions that support main functions of living organisms where reactants and products rearrange to form ATP, ADP and inorganic-phosphate		12
2	BIO.3.1.02.021 Identify examples of chemid reactions catalyzed by enzymes that occur in living systems,describing their importance in living organism and explaining why an enzyme deficiency results in the inability to perform a specific function in life	الشكل رقم 15	14
		Figure No. 15	
3	BIO.3.1.02.020 Identify the solubility as the ability of a solute to dissolve in a solvent and explain the properties of water that make it the universal solvent	الشكل رقم 19	17
		Figure No. 19	
4	BIO.3.1.02.018 Distinguish between homogeneous mixtures (solutions) and heterogeneous mixtures		19
5	BIO.3.1.02.023 Use acid-base indicators or PH test strips to classify solutions as acidic, basic, or neutral	الشكل رقم 23	20
		Figure No. 23	
6	BIO.3.1.02.018 Distinguish between homogeneous mixtures (solutions) and heterogeneous mixtures	الشكل رقم 21 و 22	19
		Figure No. 21,22	
7	BIO.3.1.02.019 Construct and revise an explanation based on evidence for how carbon ,hydrogen,and oxygen from sugar molecules may combine with other elements to from amino acids and/or other large carbon -based molecules	الشكل رقم 25	22
		Figure No. 25	
8	BIO.3.1.02.024 Explain that the hydrocarbon backbones of the sugars formed during photosynthesis are used to make amino acids and other carbon-based molecules that can be assembled into larger molecules used, for example, to form new cells	الشكل رقم 29	26
		Figure No. 29	
9	BIO.3.1.02.024 Explain that the hydrocarbon backbones of the sugars formed during photosynthesis are used to make amino acids and other carbon-based molecules that can be assembled into larger molecules used, for example, to form new cells	الشكل رقم 31	27
		Figure No.31	
10	BIO.3.2.04.010 Explain that in artificial selection, humans have the capacity to influence certain characteristics of organisms through selective breeding	الشكل رقم 2	40
		Figure No.2	
11	BIO.3.2.04.010 Explain that in artificial selection, humans have the capacity to influence certain characteristics of organisms through selective breeding		39
12	BIO.3.3.02.024 Illustrate the mechanisms of gene therapy and the replacement of defective genes with healthy ones	الشكل رقم 7	45
		Figure No.7	
13	BIO.3.3.02.024 Illustrate the mechanisms of gene therapy and the replacement of defective genes with healthy ones		42
14	BIO.3.3.02.024 Illustrate the mechanisms of gene therapy and the replacement of defective genes with healthy ones		45
15	BIO.3.3.02.024 Illustrate the mechanisms of gene therapy and the replacement of defective genes with healthy ones		43
16	BIO.3.3.03.005 Study the importance of the genetic codes modification intact for the prevention of diseases and the importance of the human genome composition in determining the paternity and crime, by using the interactive software in a computer		56
17	BIO.3.3.03.005 Study the importance of the genetic codes modification intact for the prevention of diseases and the importance of the human genome composition in determining the paternity and crime, by using the interactive software in a computer		53
18	BIO.3.1.01.062 Describe the endocrine, excretory,and nervous systems and explain how these systems interact to maintain homeostasis		85
19	BIO.3.1.01.070 Explain how the positive and negative feedback regulate hormones level in order to maintain the internal conditions of a living system	الشكل رقم 17	82
		Figure No.17	
20	BIO.3.1.01.077 Identify the relation between gland cells and their secretory property (exocrine or endocrine), and their ability to regulate the secretion rate	الشكل رقم 12	79
		Figure No.12	
<p>* Questions might appear in a different order in the actual exam, or on the exam paper in the case of G3 and G4.</p> <p>قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي، أو على ورقة الامتحان في حالة الصفين G3 وG4.</p>			
<p>** As it appears in the textbook, LMS, and (Main_IP).</p>			
<p>** كما وردت في كتاب الطالب وLMS والخطة التفصيلية.</p>			